# Open Infrastructure - Task #7583

## Handle etcd leader change or temporary unavailability gracefully in uncloud

01/07/2020 02:07 PM - Ahmed Bilal

Status: Rejected Start date: 01/07/2020 **Priority:** Normal Due date: % Done: Assignee: 0% **Estimated time:** 0.00 hour Category: Target version: PM Check date: **Description** Here is leader change. uncloud@server12:~\$ uncloud scheduler Traceback (most recent call last): File "/home/uncloud/.local/lib/python3.5/site-packages/etcd3/client.py", line 46, in handler return f(\*args, \*\*kwargs) File "/home/uncloud/.local/lib/python3.5/site-packages/etcd3/client.py", line 308, in get\_prefix\_response metadata=self.metadata File "/home/uncloud/.local/lib/python3.5/site-packages/grpc/\_channel.py", line 824, in \_\_call\_\_ return \_end\_unary\_response\_blocking(state, call, False, None) File "/home/uncloud/.local/lib/python3.5/site-packages/grpc/\_channel.py", line 726, in \_end\_unary\_response\_blocking raise \_InactiveRpcError(state) grpc.\_channel.\_InactiveRpcError: <\_InactiveRpcError of RPC that terminated with:</pre> status = StatusCode.UNAVAILABLE details = "etcdserver: leader changed" debug\_error\_string = "{"created":"@1578303042.125921981","description":" Error received from peer ipv6:[2a0a:e5c0:2:12:0:f0ff:fea9:c43a]:2379","file":" src/core/lib/surface/call.cc","file\_line":1056,"grpc\_message":"etcdserver: leader changed"," grpc\_status":14}" and here is temporary unavailability Cannot connect to etcd: is etcd running as configured in uncloud.conf? Exception in thread etcd3\_watch\_7fc862374c18: Traceback (most recent call last) File "/usr/lib/python3.5/threading.py", line 914, in \_bootstrap\_inner self.run() File "/usr/lib/python3.5/threading.py", line 862, in run self.\_target(\*self.\_args, \*\*self.\_kwargs) File "/home/uncloud/.local/lib/python3.5/site-packages/etcd3/watch.py", line 126, in run metadata=self.\_metadata)

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File "/home/uncloud/.local/lib/python3.5/site-packages/grpc/_channel.py", line 1171, in create
   operationses_and_tags, context)
 File "src/python/grpcio/grpc/_cython/_cygrpc/channel.pyx.pxi", line 478, in
grpc._cython.cygrpc.Channel.integrated_call
 File "src/python/grpcio/grpc/_cython/_cygrpc/channel.pyx.pxi", line 296, in
grpc._cython.cygrpc._integrated_call
 File "src/python/grpcio/grpc/_cython/_cygrpc/channel.pyx.pxi", line 222, in
grpc._cython.cygrpc._call
 File "src/python/grpcio/grpc/_cython/_cygrpc/channel.pyx.pxi", line 262, in
grpc._cython.cygrpc._call
ValueError: Cannot invoke RPC: Channel closed!
Process Process-1:
Traceback (most recent call last):
 File "/home/uncloud/.local/lib/python3.5/site-packages/etcd3/client.py", line 46, in handler
   return f(*args, **kwargs)
 File "/home/uncloud/.local/lib/python3.5/site-packages/etcd3/client.py", line 426, in put
   metadata=self.metadata
 File "/home/uncloud/.local/lib/python3.5/site-packages/grpc/_channel.py", line 824, in__call__
   return _end_unary_response_blocking(state, call, False, None)
 File "/home/uncloud/.local/lib/python3.5/site-packages/grpc/_channel.py"
, line 726, in_end_unary_response_blocking
   raise _InactiveRpcError(state)
grpc._channel._InactiveRpcError: <_InactiveRpcError of RPC that terminated with:
       status = StatusCode.UNAVAILABLE
       details = "etcdserver: request timed out"
       debug_error_string = "{"created":"@1578304999.737401188","description":"
Error received from peer ipv6:[2a0a:e5c0:2:12:0:f0ff:fea9:c43a]:2379","file":"src/core/lib/$
urface/call.cc","file_line":1056,"grpc_message":"etcdserver: request timed out","grpc_status":14}"
```

File "/home/uncloud/.local/lib/python3.5/site-packages/grpc/\_channel.py", line 1084, in \_\_call\_

# History

Related issues:

# #1 - 01/08/2020 07:34 AM - Ahmed Bilal

The later unavailability is due to election for leader.

event\_handler, self.\_context)

### #2 - 01/08/2020 08:21 PM - Ahmed Bilal

We have to re-evaluate/re-check all the usage of etcd in uncloud to make sure we handle these events correctly/gracefully.

I have modified few things in get\_prefix/watch\_prefix that would help to correctly/gracefully handle etcd events for requests. For Example, `uncloud host` and `uncloud scheduler` used to crash previously in their blocked state (i.e when waiting for requests) whenever there is a leadership change or etcd unavailable temporarily.

01/09/2020

Rejected

#### #3 - 01/09/2020 08:52 AM - Ahmed Bilal

- Related to Task #7590: Expect everything to fail (uncloud) added

Related to Open Infrastructure - Task #7590: Expect everything to fail (uncloud)

#### #4 - 02/26/2020 11:29 AM - Ahmed Bilal

- Status changed from New to Waiting

#### #5 - 12/01/2020 02:48 PM - Ahmed Bilal

- Assignee deleted (Ahmed Bilal)

#### #6 - 12/06/2021 11:54 PM - Nico Schottelius

- Status changed from Waiting to Rejected

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